



6BN4

MEDIUM-MU TRIODE

7-PIN MINIATURE TYPE

For use as rf amplifier in grid-drive
circuits of VHF television tuners

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GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). $6.3 \pm 10\%$ volts
Current 0.2 amp

Direct Interelectrode Capacitances (Approx.):⁰

Grid to plate 1.2 μf
Grid to cathode and heater. 3.2 μf
Plate to cathode and heater 1.4 μf
Heater to cathode 2.8^{*} μf

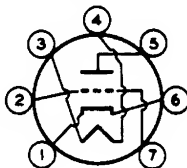
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage. 150 volts
Cathode Resistor. 220 ohms
Amplification Factor. 43
Plate Resistance (Approx.). 6300 ohms
Transconductance. 6800 μmhos
Plate Current 9 ma
Grid Voltage (Approx.) for
plate $\mu\text{a} = 100$ -6 volts

Mechanical:

Operating Position. Any
Maximum Overall Length. 2-1/8"
Maximum Seated Length 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" \pm 3/32"
Diameter. 0.650" to 0.750"
Dimensional Outline See General Section
Bulb. T5-1/2
Base. Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW. 7EG

Pin 1 - Cathode
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Cathode
Pin 7 - Grid

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 275 max. volts
GRID VOLTAGE:
Positive-bias value. 0 max. volts
CATHODE CURRENT. 22 max. ma
PLATE DISSIPATION. 2.2 max. watts

← Indicates a change.

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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 100 max. volts
Heater positive with respect to cathode. . 100 max. volts

Maximum Circuit Values:

Grid-Circuit Resistance 0.5 max. megohm

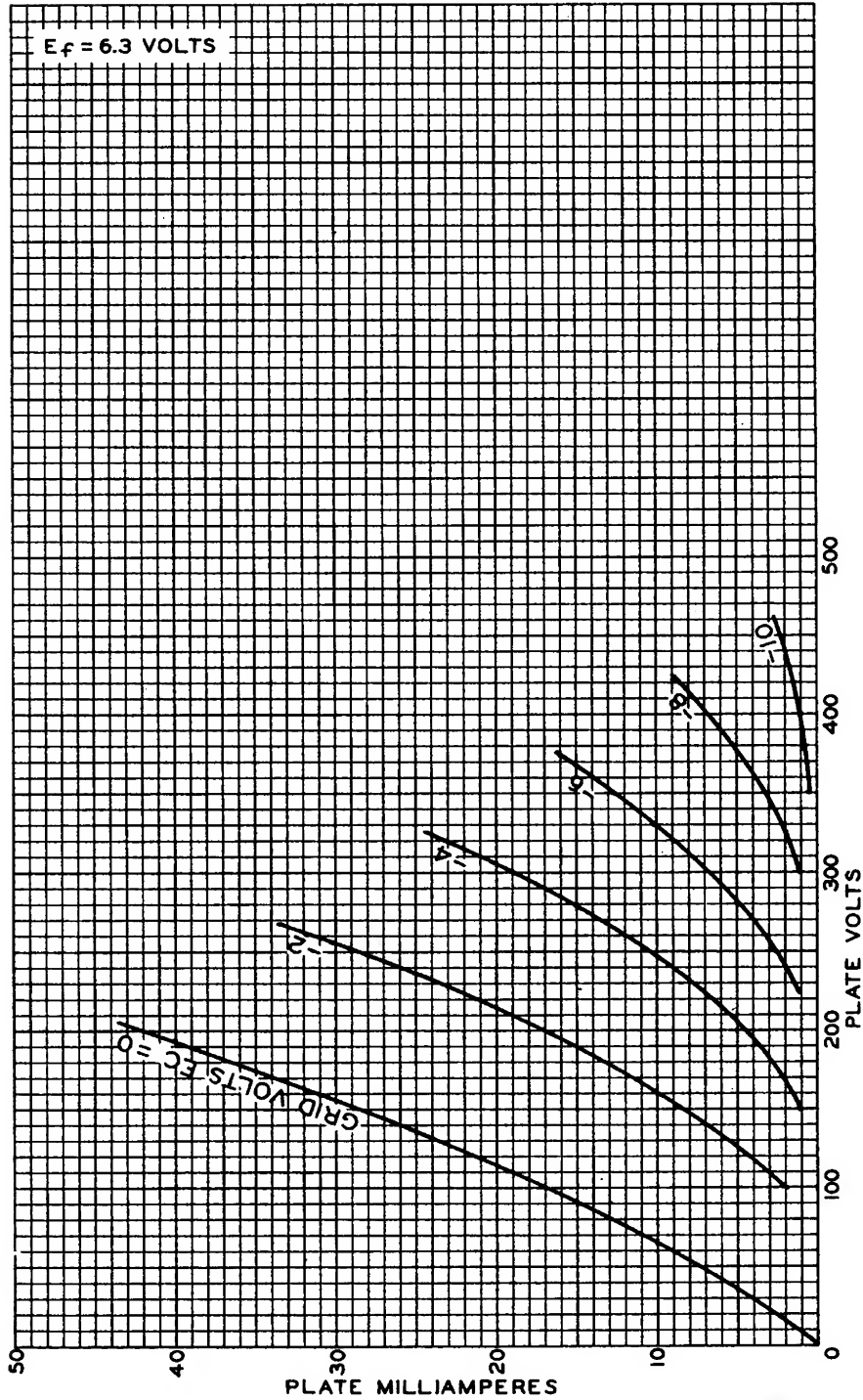
- ° With external shield JEDEC No.316 connected to cathode except as noted.
- With external shield JEDEC No.316 connected to ground.



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AVERAGE PLATE CHARACTERISTICS



TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8933RI

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AVERAGE CHARACTERISTICS

